

APPL. NO. 524495, 524496,
524497

ENGINEERING AND COMPLIANCE DIVISION

PROCESSED BY: R. Singh
CHECKED BY:

APPLICATION PROCESSING AND CALCULATION

DATE: 07/10/11

PERMIT TO CONSTRUCT/OPERATE EVALUATION

Applicant's Name

S.A. RECYCLING LLC

Company I.D.

153095

Mailing Address

3200 EAST FRONTERA ST., ANAHEIM, CA 92806

Equipment Address

3200 EAST FRONTERA ST., ANAHEIM, CA 92806

EQUIPMENT DESCRIPTION:Application No. 524495

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. DUST COLLECTOR, DONALDSON-TORIT, MODEL 4DF32, WITH 32 FILTER CARTRIDGES, 7232 SQ. FT. TOTAL FILTER AREA, AND PULSE JET CLEANING.
2. EXHAUST SYSTEM WITH A 50 HP. BLOWER, VENTING CYCLONE P-4 OF THE COPPER RECOVERY SUBSYSTEM.

Application No. 524496

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. DUST COLLECTOR, DONALDSON-TORIT, MODEL 3DF36, WITH 36 FILTER CARTRIDGES, 8136 SQ. FT. TOTAL FILTER AREA, PULSE JET CLEANING, AND A BAG LEAK DETECTION SYSTEM, TYCO, MODEL BBD6-4100.
2. EXHAUST SYSTEM WITH A 36 INCH DIAMETER EXHAUST STACK AND A 60 HP. BLOWER, VENTING CYCLONE P-6 OF THE COPPER RECOVERY SUBSYSTEM.

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Application No. 524497

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. DUST COLLECTOR, DONALDSON-TORIT, MODEL 4DF64, WITH 64 FILTER CARTRIDGES, 14464 SQ. FT. TOTAL FILTER AREA, PULSE JET CLEANING, AND A BAG LEAK DETECTION SYSTEM, TYCO, MODEL BBD6-4100.
2. EXHAUST SYSTEM WITH A 44 INCH DIAMETER EXHAUST STACK AND A 75 HP. BLOWER, VENTING CYCLONE P-10 OF THE COPPER RECOVERY SUBSYSTEM.

BACKGROUND:

This is a Title V facility, engaged in scrap metal shredding including scrap automobiles, scrap appliances, metal pipes, metal drums, and metal machinery. These applications were submitted on 6/30/11 for three dust collectors that will control emissions from the Copper Line Subsystem of the existing Material Recovery Plant (MRP) operating under PO # G6281 (A/N 482318). The exhaust from cyclones P-4, P-6, and P-10 in the copper recovery subsystem of the MRP will be vented to these dust collectors. Addition of these dust collectors will reduce particulate emission resulting in improved indoor air quality for worker comfort. The applicant requested expedited permit processing for these applications.

A check on the compliance data did not show any open violations. The facility is in an industrial area and there are no schools within 1000 feet of this facility.

PROCESS DESCRIPTION:

The incoming scrap is shredded and the ferrous material is magnetically separated. The non-ferrous material is further processed through the Material Recovery Plant (MRP) to recover other metals. The proposed dust collector will vent the cyclones in the copper recovery subsystem in the MRP. The purpose of installing these dust collectors is to reduce particulate emissions, resulting in improved indoor air quality for worker comfort.

Dust collectors in A/Ns 524496 and 524497 are Tier 3 devices with more than 7500 sq ft filter area. Rule 1155 (e) (3) (A) requires a Bag Leak Detection System (BLDS) for these dust collectors (see attached Table 1 of Rule 1155). A BLDS is included with each of these Dust collectors. The BLDS will be installed in the exhaust stack of each dust collector. As required by Rule 1155, a source test will be conducted on each of these Tier 3 dust collectors to verify compliance with the emission limit specified in paragraph (d) (2) of this Rule.

OPERATING SCHEDULE:

Maximum: 24 hrs per day, 7 days per week, 52 weeks per year
Average: 16 hrs per day, 7 days per week, 52 weeks per year

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EMISSION CALCULATIONS:Application No. 524495

This a Tier 2 Baghouse (>500 – 7500 sq ft filter area)

Filter Area = 7232 sq ft
Blower capacity = 16,000 scfmAir-to-Cloth Ratio = Blower CFM / Filter Area
= 16,000 scfm / 7232 sq. ft.
= 2.2:1 – ok (within ARB guidelines)Application No. 524496

This a Tier 3 Baghouse (> 7500 sq ft filter area)

Filter Area = 8136 sq ft
Blower capacity = 20,000 scfmAir-to-Cloth Ratio = Blower CFM / Filter Area
= 20,000 scfm / 8136 sq. ft.
= 2.46:1 – ok (within ARB guidelines)Application No. 524497

This a Tier 3 Baghouse (> 7500 sq ft filter area)

Filter Area = 14464 sq ft
Blower capacity = 32,000 scfmAir-to-Cloth Ratio = Blower CFM / Filter Area
= 32,000 scfm / 14464 sq. ft.
= 2.2:1 – ok (within ARB guidelines)**RULES:**

RULE 212 The facility is not located within 1000 feet of a school. Rule 1401 risk will not be greater than one in a million. There is no increase in emissions as a result of installation of this equipment and will not exceed the limits in section (g) of this rule. Therefore, a public notice is not required.

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- RULE 401 Visible emissions are not expected with proper maintenance and operation of this equipment. Compliance is expected.
- RULE 402 Operation of this equipment is not expected to create a nuisance. Compliance is expected.
- RULE 404 Proper operation of this air pollution control equipment is expected to reduce PM emissions to acceptable levels. Compliance is expected.
- RULE 405 Proper operation of this air pollution control equipment is expected to reduce PM emissions to acceptable levels. Compliance is expected.
- RULE 1155 This Rule requires installation of Bag Leak Detection System (BLDS) for Tier 3 dust collectors (total filter area more than 7500 sq ft). Filter area for dust collectors in A/Ns 5244496 & 524497 is more than 7500 sq ft. These will be fitted with BLDS in compliance with this rule. Since this is a Title V facility, a source test will be conducted to show compliance with the emission limit of paragraph (d)(2) of this rule.
- REG. XIII New Source Review:
- Installation of this air pollution control equipment does not result in an increase in emissions. Therefore, REG XIII review is not required under this rule.
- RULE 1401 Review of Toxic Air Contaminants
- This is air pollution control equipment which will reduce emissions from the basic equipment. No increase in health risk is expected from this equipment. Compliance is expected.

CONCLUSIONS/RECOMMENDATIONS:

The equipment is expected to comply with all applicable AQMD rules and regulations. Issue PCs subject to permit conditions listed below:

Conditions:

Application No. 524495

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

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3. A MECHANICAL GAUGE SHALL BE INSTALLED AND MAINTAINED AT THE DUST COLLECTOR TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS. THE TOTAL STATIC PRESSURE DIFFERENTIAL ACROSS THE DUST COLLECTOR SHALL REMAIN BETWEEN 2.5 AND 7.5 INCHES OF WATER COLUMN DURING NORMAL OPERATION.
[RULE 404]
4. DUST COLLECTED IN THE DUST COLLECTOR SHALL BE DISCHARGED ONLY INTO ENCLOSED CONTAINERS OR RETURNED TO THE PROCESS AND SHALL NOT BE HANDLED IN A MANNER THAT MAY RESULT IN THE RE-RELEASE OF COLLECTED MATERIAL TO THE ATMOSPHERE.
[RULE 404]
5. THIS EQUIPMENT SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF AQMD RULE 1155. [RULE 1155]
6. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH RULE 1155 REQUIREMENT OF EMISSIONS MONITORING AND RECORD KEEPING. RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, RETAINED AT THE FACILITY FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST.
[RULE 3004 (a) (4)]

Periodic and Compliance Assurance Monitoring:

7. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
 - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
 - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
[RULE 3004 (a) (4)]

Emissions and Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS.
RULE 405, SEE APPENDIX B FOR EMISSION LIMITS.
RULE 1155, PARTICULAR MATTER CONTROL DEVICES.

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524497****ENGINEERING AND COMPLIANCE DIVISION****PROCESSED BY: R. Singh
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[RULE 404]
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[RULE 404]
5. THIS EQUIPMENT SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF AQMD RULE 1155. [RULE 1155]
6. THE OPERATOR SHALL CONDUCT A SOURCE TEST IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 - A. THE TEST SHALL BE CONDUCTED WITHIN 60 DAYS FROM THE DATE THE EQUIPMENT IS INSTALLED AND BECOMES OPERATIONAL.
 - B. THE TEST SHALL BE CONDUCTED AT EXHAUST STACK OF THE DUST COLLECTOR TO DETERMINE THE TOTAL PARTICULATE EMISSIONS TO SHOW COMPLIANCE WITH RULE 1155 EMISSION LIMIT OF 0.01 GR/DSCF.
 - C. THE TEST SHALL BE CONDUCTED WHEN THE BASIC EQUIPMENT IS OPERATING AT MAXIMUM LOAD.
 - D. THE DISTRICT ENGINEER IDENTIFIED ON THE PERMIT SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST, OR WITHIN A TIME PERIOD AGREED UPON BY THE DISTRICT ENGINEER.

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- E. THE METHOD USED FOR SOURCE TESTING SHALL BE APPROVED IN WRITING BY THE SCAQMD PRIOR TO THE TEST.
- F. THE TESTING FACILITY SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR SAMPLING FACILITIES, PURSUANT TO DISTRICT RULE 217 AND SHALL BE IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST).
[RULE 1303 (b) (2)]
7. THE OPERATOR SHALL PROVIDE TO THE DISTRICT TWO COPIES OF THE SOURCE TEST REPORT IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS.
- A. THE TEST RESULTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 30 DAYS AFTER THE SOURCE TEST WAS CONDUCTED.
- B. THE EMISSION DATA SHALL BE EXPRESSED IN TERMS OF MASS RATE (LBS/HR) AND GRAIN LOADING (GR/DSCF).
- C. THE EXHAUST FLOW RATE SHALL BE EXPRESSED IN TERMS OF DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) AND DRY ACTUAL CUBIC FEET PER MINUTE (DACFM).
- D. THE TEST RESULTS SHALL INCLUDE THE PROCESS WEIGHT UNDER WHICH THE TEST WAS CONDUCTED.
[RULE 1303 (b) (2)]
8. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH RULE 1155 REQUIREMENT OF EMISSIONS MONITORING AND RECORD KEEPING. RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, RETAINED AT THE FACILITY FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST.
[RULE 3004 (a) (4)]

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- C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
[RULE 3004 (a) (4)]

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